

R A D I O N I C S

D7112 Control/Communicator Program Entry Guide

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**7112 PRODUCT HANDLER
OVERVIEW****PANEL WIDE PARAMETER**

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Phone Routing
Power Supervision
RAM Parameters
Test Reports
Miscellaneous
RF Parameters
Bell Parameters

AREA WIDE PARAMETERS

Area Parameters
Area Open/Close
Open/Close Windows
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PASSCODE WORKSHEET**RELAYS****CMD CENTER FUNCTIONS**

Command Center Menus
Easy Menu

COMMAND CENTER

Cmd Center Assign
Command Center Text
Custom Point Text
Entry Timers
Exit Delay

POINT ASSIGNMENTS

Module 1 PANEL WIDE PARAMETERS**Phone**

Use this section of the program to enter the central station receiver telephone numbers, reporting formats, dialing, and phone line supervision characteristics for the D7112.

Phone 1

Radionics Default: **Blank**
Selections:

See Note

The telephone number the D7112 dials to send event reports to the central station receiver. This number is assigned "Phone 1" which is referenced in *Phone Routing* parameters.

The D7112 is pre-programmed with a 3-second pause, then a 4-second dial tone detect period. The D7112 begins to dial when it detects dial tone or the waiting period ends. To extend or insert a pause, program a C and/or D in the telephone dialing sequence.

Enter up to 24 of the following characters to define dialing characteristics.

Enter up to twelve characters on the first data entry line, then press ENTER to advance down to the second data entry line.

0 – 9 -----Numbers 0 through 9
C -----3-second dial delay
D -----7-second dial delay

or *-----Used for the same purpose as pressing this key on a telephone keypad when manually dialing. For example, an asterisk (*) may be needed to access your long distance service.

and * do not work unless the panel is programmed for tone dialing. Program *DTMF Dialing* YES.

Blank -----Panel does not dial the receiver.

Maximum number of dialing digits for the entire panel: The system can dial 44 digits distributed between the central station receiver phone numbers. For example: two numbers can be 22 digits each, or, if you are using three numbers, two of them can be 15 digits and one can be 14 digits.

Modem Format

Radionics Default: **Yes**
Selections:

Yes or No

Central station receiver format for transmitting reports to Phone 1.

Modem format provides many reporting advantages over the BFSK format, therefore, Radionics strongly recommends the use of Modem format reporting.

The *D6500 Report Directory* (74-04651-001 7/91 or later) explains the new report formats available with the D7112, as well as the point reporting characteristics. The *D6500 Computer Interface Installation Manual* (74-05313-000-C 7/91 or later) provides information about new messages available in the D6500 mode automation output.

Yes -----Modem II for the D7112 (requires Radionics D6500 Receiver with MPU EPROM and Line EPROM version 06.00 or higher).

Module 1 PANEL WIDE PARAMETERS

Modem II format reports identify points as "1" through "48" and passcode User ID codes as "1" through "25" at the D6500 receiver (unless *Point/User Flag* is programmed YES).

No -----BFSK (requires that the D6500 receiver be programmed for a 2300 Hz acknowledgement tone).

An Opening or Closing report from an area programmed to send the report only when the entire account is armed transmits the report with a 1-digit "USER ID" instead of the Area Number. See *AREA WIDE PARAMETERS, Area Open/Close Open/Close by Acct.*

Tables for BFSK User ID codes and Zone/Point code translations are found in the *Passcode Worksheet* and *Point Assignment* sections of this manual.

Phone 2

Radionics Default: Blank
Selections:

See Note

(See explanation of *Phone 1*.) This number is assigned "Phone #2" which is referenced in the Phone Routing Chart.

Modem Format

Radionics Default: Yes
Selections:

Yes or No

Central station receiver format for transmitting reports to Phone 2.

(See explanation of *Modem Format* following *Phone 1*)

Phone 3

Radionics Default: Blank
Selections:

See Note

(See explanation of *Phone #1*.) This number is assigned "Phone #2" which is referenced in the Phone Routing Chart.

Modem Format

Radionics Default: Yes
Selections:

Yes or No

Central station receiver format for transmitting reports to Phone 3.

(See explanation of *Modem Format* following *Phone 1*)

Module 1 PANEL WIDE PARAMETERS**Point/User Flag**

Radionics Default: No
Selections:

Yes or No

This program item allows you to determine how point and User ID numbers are presented at the D6500 display, printer, and computer RS232 output.

When **Modem Format** is YES, the D7112 sends expanded Modem II reports to the D6500. If your central station data files are not set up for 7112 point and User ID number reporting, you can use this program item to convert these numbers to D8112 style ZONEX and COMEX reports. This program item does not affect any other aspect of Modem II reports.

Yes ----- The D7112 sends a "flag" with each report that tells the D6500 to convert D7112 point numbers to Radionics' D8112 style ZONEX format, and User ID numbers to D8112 style COMEX format. The conversions are shown in the table below. [No matter how the D6500 is programmed for output to the computer system, points and User ID numbers are converted when this item is YES. (See the *6500:MPU Program Entry Guide, CompOut* program item.)]

No ----- The D7112 does not send the "flag" and the D6500 outputs point numbers as 001–048 (rather than 100–308), and User ID numbers as 01–25 (rather than 001–804).

When **Modem Format** is YES, the D7112 always sends expanded Modem II reports to the D6500. When **Point/User Flag** is programmed YES, the D6500 converts the following Modem II data as shown below.

User ID Numbers		Point Numbers	
<i>Point/User Flag</i>		<i>Point/User Flag</i>	
NO	YES	NO	YES
0	0	001 – 008	100 – 800
01 – 05	001 – 005	009 – 024	101 – 116
06 – 13	601 – 608	025 – 040	201 – 216
14 – 21	701 – 708	041 – 048	301 – 308
22 – 25	801 – 804		

DTMF Dialing

Radionics Default: No
Selections:

Yes or No

Use DTMF (dual-tone multi-frequency) to dial phone number(s).

Yes ----- DTMF Dialing (After three digits have been dialed and the dial tone has not gone away, the panel reverts to pulse dialing.)

No ----- Pulse Dialing

Phone Supv Time

Radionics Default: Blank
Selections:

Blank, 2 Min, 4 Min, 8 Min

Phone line supervision trouble delay time in minutes. This entry sets the time the phone line monitor tests a faulted line before initiating phone line trouble responses. For NFPA 72 applications, the maximum phone line supervision delay is 4 minutes.

Blank -----No phone line supervision.

All other Entries -----Phone trouble responses are initiated if the phone line continues to be faulted after the programmed time expires. The **SERVICE PHONE** message displays and the trouble tone sounds on command centers.

Press the command center CLR key, enter CMD 4, or enter a passcode to silence the trouble tone. The command center continues to display the trouble condition.

To send phone line supervision reports: Program the *Alarm/Res/Cncl* report group in *Phone Routing*. Connect a D728 Dual Phone Line Module to operating phone lines, and program **Two Phone Lines** YES.

Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display.

Alarm on Fail

Radionics Default: No
Selections:

Yes or No

Activate the alarm bell relay for phone line failure. The bell follows programmed *Bell Time* and uses *Burg Bell Pattern*. (See *Bell Parameters*.)

When programmed YES, this item causes the trouble tone on all command centers to sound when a phone line fails. **Phone Supv Time** must be enabled to use this feature.

Two Phone Lines

Radionics Default: No
Selections:

Yes or No

Use this program item when a D728 Dual Phone Line Module is connected to the D7112. Both lines must be of the same operation, either ground start or loop start. Ground start cannot be used on fire systems.

Yes -----D728 Dual Phone Line Module installed

No -----No D728 Dual Phone Line Module

Phone Routing

Each of the Report Groups in the D7112 can be programmed to report to one or all of the Phone numbers. The Phone numbers can be used as primary, back-up, or duplicate reporting paths for each of the Report Groups.

Fire alarm events have priority over all other events that need to be reported. An event that has not been reported to the primary or back-up phone has a higher priority than an event that needs to be reported to a duplicate phone.

Rules for Phone Routing

- 1) Each group can be programmed with only one Primary Phone.
- 2) Each group can be programmed with only one Backup Phone.
- 3) Each group can be programmed with only one Duplicate Phone.

If the D5200 tweedles when you make an entry, you've made a routing error: If you enter the same route on two different phones for a particular Report Group the D5200 "tweedles". When it tweedles, it accepts the entry currently in the display, and changes the matching routing entry to blank. This disables routing the Report Group to the other phone.

Re-check the phone routing for the Report Group for each phone if the programmer tweedles.

Phone Routing Worksheet

Report Group Name (Report Type)			Phone 1	Phone 2	Phone 3
Fire Alarm/Res (Fire Alarm/Restoral)					
Fire Alarms	Fire Restoral after Alarm	Fire Cancel			
Fire Tbl/Res (Fire Trouble/Restoral)					
Fire Trouble	Fire Restoral after Trouble				
Alarm/Res/Cncl (Non-Fire Alarm/Restoral/Cancel)					
Burglary	24-Hour Alarm	Duress			
Command 7	Command 9	Restoral after Alarm			
Alarm Cancel	Transmitter Tamper	Transmitter Restoral			
Valid RAM Access	Invalid RAM Access				
Fail to Call RAM	Log Threshold	Test Report			
Point Status	User Passcode Tamper				
Phone Line Trouble	Phone Line Restoral				
Panel Battery Low	Panel Battery Missing	Panel Battery Restoral			
Panel AC Failure	Panel AC Restoral	Communication Restoral			
Status: Disarmed	Status: Master Armed	Status: Perimeter Instant			
Status: Perimeter Delay					
Expansion Point Buss Trouble					
Expansion Point Buss Restoral					
Tbl/Res (Non-Fire Trouble/Restoral)					
Burglary Trouble	24-Hour Trouble	Restoral after Trouble			
Swinger Bypass	Transmitter Tamper	Transmitter Restoral			
Transmitter Low Battery					
Transmitter Low Battery Restoral					
RF Receiver Trouble	RF Receiver Restoral	Extra RF Point			
RF Interference	SDI Trouble	SDI Restoral			

Module 1 PANEL WIDE PARAMETERS

Open/Close				
Opening	Closing	Perimeter Instant Armed		
Perimeter Delay	Fail To Close	Point Closing		
Extend Close Time	Fail To Open	Was Force Armed		
Bypass a Point	Force Bypass a Point	Point Opening		
Service				
Valid Programmer Access		Passcode Delete		
Invalid Programmer Access		Passcode Change		
Panel Reset	Sensor Reset			
ROM Checksum Fail	Panel Watchdog Activated			

Phone #

Radionics Default: 1
Selections:

1 – 3

Enter the number for the phone destination you are programming.

Ph# Fire Alarm/Res

Radionics Default: P (for Phone 1 only)
Selections: Blank, P, B, or D

Reports Include: Fire Alarms, Fire Restoral after Alarm, Fire Cancel.

Blank -- Not Reported to this phone number.

P ----- **Primary**: send all reports from this group to this phone number.

B ----- **Backup**: send reports from this group to this phone if the report is not received by the primary phone number.

D ----- **Duplicate**: send all reports from this group to this phone number after it is sent to the other phone (primary or back-up).

Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display.

Ph# Fire Tbl/Res

Radionics Default: P (for Phone 1 only)
Selections: Blank, P, B, or D

Reports include: Fire Trouble, Fire Restoral after Trouble.

See the explanation for **Ph# Fire Alarm/Res** for a description of selections.

Ph# Alarm/Res/Cncl

Radionics Default: P (for Phone 1 only)
Selections: Blank, P, B, or D

Reports Include: Burglary, 24-Hour Alarm, Duress, Command 7, Command 9, Restoral after Alarm, Alarm Cancel, Transmitter Tamper, Transmitter Restoral, Valid RAM Access, Invalid RAM Access, Fail to Call RAM, Log Threshold, Test Report, Status: Disarmed, Status: Master Armed, Status: Perimeter Instant, Status: Perimeter Delay, Point Status, User Passcode Tamper, Expansion Point Buss Trouble, Expansion Point Buss Restoral, Phone Line Trouble, Phone Line Restoral, Panel Battery Low, Panel Battery Missing, Panel Battery Restoral, Panel AC Failure, Panel AC Restoral, Log Threshold, Communication Restoral.

See the explanation for **Ph# Fire Alarm/Res** for a description of selections.

Module 1 PANEL WIDE PARAMETERS***Ph# Tbl/Res***

Radionics Default: P (for Phone 1 only)
Selections:

Blank, P, B, or D

Reports Include: Burglary Trouble, 24-Hour Trouble, Restoral after Trouble, Swinger Bypass, Transmitter Tamper, Transmitter Restoral, Transmitter Low Battery, Transmitter Low Battery Restoral, RF Receiver Trouble, RF Receiver Restoral, Extra RF Point, RF Interference, SDI Trouble, SDI Restoral.

See the explanation for *Ph# Fire Alarm/Res* for a description of selections.

Ph# Open/Close

Radionics Default: P (for Phone 1 only)
Selections:

Blank, P, B, or D

Reports Include: Opening, Closing, Perimeter Instant Armed, Perimeter Delay Armed, Fail To Close, Extend Close Time, Fail To Open, Was Force Armed, Bypass a Point, Force Bypass a Point, Point Opening, Point Closing.

See the explanation for *Ph# Fire Alarm/Res* for a description of selections.

Ph# Service

Radionics Default: Blank
Selections:

Blank, P, B, or D

Reports Include: Valid Programmer Access, Invalid Programmer Access, Panel Reset, Passcode Delete, Passcode Change, Sensor Reset, Panel Watchdog Activated, ROM Checksum Fail.

Power Supervision

AC Fail/Res Rpt

Radionics Default: Yes
Selections:

Yes or No

AC Power Supervision reports sent to the central station.

Yes ----- AC Failure and AC Restoral reports are sent to the central station.

No ----- AC Failure and AC Restoral reports are NOT sent to the central station.

To send Power Supervision Reports: Program the *Alarm/Res/Cncl* report group in *Phone Routing*. Battery and AC Failure reports are Trouble events.

When a failure occurs, the SERVICE AC FAIL message displays and the trouble tone sounds at the command centers, unless it is disabled by *AC Buzz* (see below).

Power Supervision Report	AC Failure	AC Restoral	Battery Trouble	Battery Restoral
MODEM Transmission	AC FAILURE	AC RESTORAL	BATTERY LOW or MISSING	BATTERY RESTORAL
BFSK Transmission	TROUBLE ZN 0	RESTORAL ZN 0	TROUBLE ZN 9	RESTORAL ZN 9

AC Tag Along

Radionics Default: Yes
Selections:

Yes or No

Defer the AC Failure report until another event occurs. AC supervision reports must be enabled in *AC Fail/Res Rpt* to use this feature.

Yes ----- AC Failure report is only sent if another event occurs in the system before the AC restoral.

The AC Failure report is stored until another event occurs, then sent to the *Alarm/Res/Cncl* phone destination(s). If AC power restores before the D7112 sends the report, the report is not sent.

No ----- AC Fail report is sent to the receiver as soon as it is generated if enabled in *AC Fail/Res Rpt*.

Module 1 PANEL WIDE PARAMETERS**AC Buzz**

Radionics Default: No
Selections:

Yes -----Sound the command center trouble tone and display SERVC AC FAIL approximately 15 seconds after AC power is removed when the system is operating on battery power only.

Press the command center CLR key, enter CMD 4, or enter a passcode to silence the trouble tone. The command center continues to display the trouble condition.

No -----Do not sound the command center trouble tone for AC failure. The command center displays SYSTEM TROUBLE.

Bat Fail/Res Rpt

Selections:

Yes

Yes or No

Battery (DC) Power Supervision reports sent to the central station. The amount of time that the system standby battery must be discharged or disconnected before the D7112 responds to battery failure is 15 seconds. See the *D7112 Operation and Installation Manual* (74-06195-000) for discharge schedule.

Yes -----Send Battery Failure and Battery Restoral reports to the central station when the system battery discharges below 11.8 VDC or when it is disconnected.

No -----Do not send Battery Failure and Battery Restoral reports to the central station.

To send Power Supervision Reports: Program the *Alarm/Res/Cncl* report group in *Phone Routing*.

When a failure occurs, the trouble tone sounds at the command centers unless it is disabled by *Low Battery Buzz* (see below).

Low Battery Buzz

Selections:

No

Yes or No

Turn the command center trouble tone on when the system standby battery is low or missing.

Yes -----Sound the command center trouble tone and display SERVC BATT (low or missing) for low battery or missing battery condition.

Press the command center CLR key, enter CMD 4, or enter a passcode to silence the trouble tone. The command center continues to display the trouble condition.

No -----Do not sound the command center trouble tone for low or missing battery. The command center displays SYSTEM TROUBLE.

RAM Parameters (Remote Account Manager)

Use these program items to enable D5300 Remote Account Management functions in the D7112.

RAM Passcode

Radionics Default: 999999

Selections: 0–9, A–F (6 characters required)

RAM programming security passcode. The RAM passcode must be typed into the RAM II workstation and transmitted to the D7112 before the D7112 allows RAM access. (16,777,216 passcode choices are available.)

Six characters are required for remote programming.

000000 = No remote programming.

Log 85% Full

Radionics Default: No

Selections: Yes or No

Yes ----- When the D7112's event log is 85% full the panel immediately sends a LOG THRESHOLD report to the D6500. This serves as notification so that a RAM session can be initiated to retrieve logged events before they are overwritten when the log becomes full.

No ----- No LOG THRESHOLD report is sent to the D6500 when the log reaches 85% full. If status reports are enabled, the LOG THRESHOLD event is included with the status report.

RAM Line Monitor

Radionics Default: Yes

Selections: Yes or No

This program item enables an answering machine work-around. You must program *Answer Armed* and/or *Answer Disarmed* in addition to this item.

Yes ----- When a telephone answering machine is programmed to pick up the phone before the D7112, the panel listens for the RAM lead-in tone. If the RAM tone is identified, the D7112 seizes the phone line from the answering machine and begins a RAM session.

No ----- This item should be programmed NO if you are not using RAM.

This item should be programmed NO if the panel is not sharing the phone line with an answering machine.

This item should be programmed NO if it causes false seizures of the phone line. (This could indicate that a machine using the same frequency tone is also using the phone line to which the panel is connected or it could indicate telephone system incompatibility with this feature.)

Module 1 PANEL WIDE PARAMETERS***Answer Armed***

Radionics Default: **Blank**
Selections:

Blank or 1 – 15

Set the telephone ring counter to answer the phone when all areas are in the Master Armed state. If any area in the panel is disarmed, the *Answer Disarmed* ring counter is used.

Blank -----No answer (if *RAM Line Monitor* is YES and another device answers the phone, the panel seizes the line).

1– 15 -----D7112 answers the phone after the specified number of rings when all areas are in the armed state. (Due to the characteristics of the local telephone service, the number of rings before the D7112 answers the phone could be off by as much as 2.5 rings.)

Perimeter Armed is a disarmed state for RAM purposes.

Answer Disarmed

Radionics Default: **Blank**
Selections:

Blank or 1 – 15

Set the telephone ring counter to answer the phone when any area is in the disarmed state.

Blank -----No answer (if *RAM Line Monitor* is YES and an answering machine answers the phone, the panel seizes the line).

1– 15 -----D7112 answers the phone after the specified number of rings when any area in the system is in the disarmed state. (Due to the characteristics of the local telephone service, the number of rings before the D7112 answers the phone could be off by as much as 2.5 rings.)

Perimeter Armed is a disarmed state for RAM purposes.

Test Reports

Use these program items to determine what information is transmitted when a test report is generated. Test reports are generated by Command 41, or by a command center menu entry, and on a scheduled basis according to the test interval programmed.

Test Interval

Radionics Default:	Blank
Selections:	No Report, 30 minutes, 1 hour, 12 hours, 1 day, 7 days, 14 days, 28 days

Select the interval between Test Reports.

Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display.

Installation Tip: The time of the first (or next) test report is set using the D1254 "NEXT TEST RPT" function. See the *Security System Owner's Manual* "Test Menu" for instructions.

Status with Test

Radionics Default:	No
Selections:	Yes or No

Send system status at test report time.

Installation Tip: If this item is programmed YES, a status report should be sent to the central station after the installation is completed. This will clear the status buffer and prevent events generated during the installation procedure from being sent with the first status report.

See the *Security System Owner's Manual* "Test Menu" for instructions on sending status reports.

Defer Test Rpt

Radionics Default:	No
Selections:	Yes or No

Defer the Test Report one interval from the current time if any message has been sent during the Test Report interval.

Module 1 PANEL WIDE PARAMETERS**Miscellaneous**

Use these program items to configure certain panel wide parameters, and enable certain other panel wide features.

Sensor Reset Time

Radionics Default: **5**

Selections: **Blank or 5 – 75**

Enter the number of seconds for sensor reset (Cmd 47). Program in 5-second increments. The programmer will not accept off-increment entries.

The Reset Sensors function is enabled in *Command Center Menus*, in the FUNCTION MENU. Entering Command 47, or RESET SENSORS, at a command center removes power from point 1 (powered loop) OR activates a relay as programmed in the *Sensor Reset*.

Aux Relay Time

Radionics Default: **5**

Selections: **Blank or 5 – 75**

Enter the number of seconds the Aux Relay is activated by either a passcode or a point.

Program in 5-second increments. The programmer will not accept off-increment entries.

To activate the Aux Relay using a passcode, see *Area Parameters Passcode Powers Aux Relay*, and the *Passcode Worksheet* section of this manual. To activate the Aux Relay when a point is tripped, see *Point Assignments*.

Defer Bypass Rpt

Radionics Default: **No**

Selections: **Yes or No**

Yes -----Defer point bypass reports until the area or account is armed.

No -----Send point bypass reports as they occur.

Printer

Radionics Default: **No**

Selections: **Yes or No**

Yes -----All Events are sent to the printer and the printer is supervised. The reports sent to the central station to report a missing printer identify the printer as SDI device #17.

No -----No printer

RF Parameters

Use these program items to determine the characteristics of the Radio Frequency portion of the D7112 security system. If you are using any RF devices you must set the House Code. If you are not using RF points or RF command centers you may skip the RF program items.

House Code

Radionics Default: **Blank**

Selections: **1 – 4094**

Assign the system house code for radio transmitters and receivers.

If the programmer rejects the entry, you must enter a different number. The programmer will not accept the following numbers, they are reserved for Radionics test purposes:

Dont work

255	256	511	512	767	768	1023
1024	1279	1280	1535	1536	1791	1792
2047	2048	2303	2304	2559	2560	2815
2816	3071	3072	3327	3328	3583	3584
3839	3840					

Supv Interval

Radionics Default: **Blank**

Selections: **Blank – 75 mins**

Program the receiver's supervision interval for determining missing points and transmitter battery status. Make entries in increments of five (5) minutes.

Point transmission intervals are programmed into the RF point using the D5020 programmer. The programming for the receiver's supervision interval depends on how many transmitters are reporting and the transmitter supervision intervals programmed. Use the table below to determine the entry for *Supv Interval*:

Longest Transmitter Supervision Interval	Less than 20 Transmitters	20 or More Transmitters
	Program Supv Interval for:	
1 minute	5 minutes	10 minutes
10 minutes	30 minutes	50 minutes
20 minutes	65 minutes	75 minutes

If a point fails to report during the receiver's supervision interval when the system is armed, the panel reports it as a missing alarm.

If a point fails to report during the receiver's supervision interval when the system is disarmed, the panel reports a missing trouble condition and the system cannot be armed. The system can be force armed around the point.

Intermittent missing points: If points are occasionally missing for no apparent reason, increase the receiver's supervision interval by five minutes.

If a point reports a low battery condition when the system is armed, it does not create an alarm. If a point reports a low battery condition when the system is disarmed, it creates a trouble condition but does not prevent the system from arming.

Blank -----No supervision of RF points.

Module 1 PANEL WIDE PARAMETERS**Buzz Pt Low Bat**

Radionics Default: No
Selections:

Yes or No

Yes ----- Sound the command center trouble tone for low sensor transmitter battery signals and supervisory failure.

To meet UL requirements, the command center must sound a trouble alert for low transmitter battery conditions and missing transmitters. At least one test report must be sent every 7 days, and the report must include any low battery conditions. To program this test report, *Test Interval* must be programmed for 7 days (or less) and *Status with Test* must be programmed YES.

Press the command center CLR key, enter CMD 4, or enter a passcode to silence the trouble tone. The command center continues to display the trouble condition.

No ----- Do not sound the command center trouble tone for low battery signals and supervisory failure.

Low Bat at Occur

Radionics Default: Yes
Selections:

Yes or No

Yes ----- The system transmits low transmitter battery reports as they occur (first time only). These reports are also summarized and reported at test time if a status report is enabled.

No ----- The system only transmits summarized low transmitter battery reports at test report time. (*Status with Test* must be YES in order to send summary low battery reports at test time.)

BFSK reporting: In BFSK transmission formats the system reports Trouble Zone # (Low Battery Report from the Sensor) from the point for a low battery condition on the transmitter. This occurs whether the system is armed or disarmed.

Single Tbl Buzz

Radionics Default: Yes
Selections:

Yes or No

Yes ----- Low transmitter battery activates the trouble tone and command center display only once at the end of the first supervision interval.

No ----- Low transmitter battery activates the trouble tone and command center display at the end of every supervision interval.

Bell Parameters

Use these program items to determine bell output times and the patterns of the outputs.

Bell Time

Radionics Default: **6**
Selections:

Blank or 1 – 125

Amount of time the bell rings. Make an entry for the number of minutes the bell output is provided. This number is approximate, and could vary as much as 59 seconds from the actual time programmed.

The bell output begins as soon as the condition that triggers it occurs. When the panel's internal clock begins a new minute, it considers the first minute expired. It ends the timing and shuts off the bell when the programmed number of minutes expire.

Radionics recommends a **minimum** of two minutes bell time.

Fire Applications: A new NFPA standard allows automatic silencing as permitted by the AHJ, and shall carry a minimum ring time of 5 minutes. Refer to "Alarm Silencing" in the 1990 NFPA 72 standard.

Fire Pattern

Radionics Default: **Pulse**
Selections:

Steady, Pulse, Ca Stan, TemCod3

Steady ----- Steady Output

Pulse ----- Pulsed March Time

120 beats per minute, at an even tempo

Ca Stan ----- California Standard

10 seconds audible + 5 seconds silent + 10 seconds audible + 5 seconds silent. *This sequence repeats until bell time expires.*

TemCod3 --- Temporal Code 3

0.5 to 1.0 second audible + 0.5 second silent + 0.5 to 1.0 second audible + 0.5 second silent + 0.5 to 1.0 second audible + 2.5 seconds silent. *This sequence repeats for a minimum of 3 minutes with ± 25% timing tolerance.*

Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display.

Burg Pattern

Radionics Default: **Steady**
Selections:

Steady, Pulse, CaStan, TemCod3

See **Fire Pattern** for a description of each selection.

Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display.

Module 2 AREA WIDE PARAMETERS**Area Parameters****Area #**

Radionics Default: 1
Selections: 1 – 4

Enter the Area number you are programming.

A# Area On

Radionics Default: Yes (Area 1 only)
Selections: Yes or No

Yes -----Enables the Area. A command center address must be assigned to the area (see *Command Center Assignments*).

No -----Disables the Area. (The Area can be programmed, but is disabled.)

A# Acct Number

Radionics Default: 0000
Selections: For BFSK: Ø – 999, BBB–FFF
For Modem: Ø-9999, BBBB–FFFF

Determines the account number reported for this area. An account number must be assigned to each active area. The D7112 uses the account number as a reference for arming and command center text displays. Enter up to four characters to assign the area to an account number.

Modem II: 4 characters maximum

BFSK: Only the last three characters are transmitted. Insert a zero (0) as the first digit of a 3-digit account number. Example: 0 2 3 4

A# FA Bypass Max

Radionics Default: 1
Selections: Blank or 1 – 48

Enter the maximum number of points which can be bypassed or force armed for this area. Any point that is programmed for bypass ability in Digit Four of the Point Code can be force armed or bypassed.

Points not programmed for bypass ability cannot be force armed or bypassed, with the following exceptions: automatic arming at the end of the closing window (see *Area Openings and Closings Auto Close*), Remote Account Manager bypass command, or Keypad Arming.

Force Arming allows the area to be armed when points are not normal. Points which are not normal are not included in the protection during the arming procedure. Other points operate as programmed.

When a point is force armed:

- If the point restores after arming, it is returned to the protective circuit and will detect violations.
- When it returns to the system, a restoral report is sent.

Points bypassed using the **Bypass a Point** command center function are bypassed until manually unbypassed.

A# Delay Res

Radionics Default: No
Selections:

Yes or No

Yes ----- Restoral report is delayed until area bell time expires, and point has returned to normal.

No ----- Restoral reports are sent when point restores, regardless of bell time.

A# Exit Tone

Radionics Default: Yes (Area 1 only, all others are No)
Selections:

Yes or No

Yes ----- Exit delay tone sounds once per second during exit delay at all command centers assigned to this area.

No ----- No Exit delay tone.

A# Entry Tone

Radionics Default: Yes (Area 1 only, all others are No)
Selections:

Yes or No

Yes ----- Entry delay tone sounds once per second during entry delay at all command centers assigned to this area.

No ----- No Entry delay tone.

A# Comercial Txt

Radionics Default: No
Selections:

Yes or No

Select either the Residential or Commercial library for creating point text.

Yes ----- Commercial Library

No ----- Residential Library

A# Aux Relay Uses Bell Time

Radionics Default: No
Selections:

Yes or No

This program item is used to determine what timing method is used when the Aux relay is activated by a point assigned to this area. See Digit Four in *Point Codes* to determine if a point activates the Aux Relay. (This program item has no effect on passcode activation of the Aux relay.)

Yes ----- Use the time programmed in *Bell Parameters Bell Time* to determine how long the Aux relay remains active.

No ----- Use the time programmed in *Miscellaneous Aux Relay Time* to determine how long the Aux relay remains active.

Module 2 AREA WIDE PARAMETERS**A# Passcode Powers Aux Relay****Radionics Default:** Yes (Area 1 only)**Selections:** Yes or No

Yes -----A passcode which is not assigned for command center functions activates the Aux relay. The relay remains active for the time programmed in *Miscellaneous Aux Relay Time*.

No -----No passcode can activate the Aux relay in this area.

A# Single Ring**Radionics Default:** No**Selections:** Yes or No

This determines if an alarm from the same non-fire point can restart the alarm bell time with each alarm event, or only initiate alarm output once per arming period.

Yes-----One bell output per armed period per point. Alarms from different points can restart the bell.

This does not prevent any reports, and does not affect fire alarm output. Fire alarm points restart bell time with each new alarm.

The same point may initiate more than one alarm output if the information about prior alarm events is not in alarm memory.

The alarm memory buffer can store 20 events. If a point initiates an alarm, then twenty or more alarm events occur on other points before the first point trips again, the memory of the first event is overwritten. Tripping the first point initiates another alarm output.

No -----Multiple bell outputs per armed period per point. Alarms from the same non-fire point can restart the alarm bell time with each alarm event.

A# Bell Test**Radionics Default:** No**Selections:** Yes or No

Ring Burg bell output for two seconds after closing signal has been acknowledged by receiver. If local, ring after exit time has expired.

The bell will ring once for each area being armed when all areas are armed at the same time.

Area Open/Close

Area

Radionics Default: 1
Selections: 1 – 4

Enter the Area number you are programming.

A# Enable O/C

Radionics Default: No
Selections:

Yes or No

Yes -----Enables opening and closing reports for the Area.

This item must be programmed YES to enable any opening/closing event reports programmed in Area Open/Close for this area.

No -----Disables opening and closing event reports for the Area.

A# O/C By Acct, A# Perimeter O/C, A# Restrict O/C, and A# Windows should be programmed NO for this area.

If *Open/Close Windows* are used, *A# Windows* is YES, and the area is not disarmed and armed according to the schedule...

Fail to Open and Fail to Close reports are generated even if *Enable O/C* is programmed NO.

Early to Open, Late to Open, Closing Early and Closing Late are only sent if *Enable O/C* is programmed YES.

A# O/C By Acct

Radionics Default: No
Selections:

Yes or No

Yes -----Opening and closing reports by Account.

The closing report is not sent until all areas with the same account number are armed. The opening report is sent when the first area in the account is disarmed. *Enable O/C* must be programmed YES for all areas which share the same account number.

No -----Opening and closing reports by Area with Account ID.

Send the area's opening and closing reports as soon as they occur.

A# Perimeter O/C

Radionics Default: No
Selections:

Yes or No

Yes Enables opening and closing reports for perimeter arming. All active phone routes must report in Modem format to use this feature. See *Panel Wide Parameters, Modem Format*.

No -----Disables opening and closing reports for perimeter arming.

Program this Item NO when reporting in BFSK format. BFSK does not send a report for Perimeter Arming. It will, however send an opening report when the system is disarmed after being in the perimeter armed state.

Module 2 AREA WIDE PARAMETERS**A# Restrict O/C**

Radionics Default: **No**
Selections:

Yes or No

Yes -----Only send opening reports when disarming after an alarm. Only send closing reports when force arming or bypassing points when arming.

No -----Send opening and closing reports (if enabled for the area, and the user) each time the area is disarmed or armed.

A# Windows

Radionics Default: **No**
Selections:

Yes or No

Use this program item to suppress opening and closing event reports during specific time periods programmed in the *Open/Close Windows* section.

Yes -----Suppress normal opening and closing event reports during the times programmed in *Open/Close Windows* for this area.

Allows Early to Open, Late to Open, Fail to Open, Closing Early, Closing Late, and Fail to Close reports (sent in Modem format).

No -----Send normal opening and closing reports for this area even if *Open/Close Windows* are used.

All opening and closing reports for this area are sent without early/late notification. Early to Open, Late to Open, Fail to Open, Closing Early, Closing Late and Fail to Close reports are not sent.

A# Auto Close

Radionics Default: **No**
Selections:

Yes or No

Yes -----Unconditionally arm the area at the end of the closing window. Exit delay time is provided as programmed before arming. A closing window in *Open/Close Windows* must be programmed for this area.

To use *Auto Close* and also send normal opening/closing event reports to the central station receiver, program **A# Enable O/C YES** and program **A# Windows NO** for this area.

To use *Auto Close* and suppress normal opening/closing event reports **A# Windows** must be programmed YES.

No -----Do not arm the area at the end of the closing window.

Open/Close Windows

Opening and Closing Windows are used to suppress opening and closing reports during specific time periods. Use this section of the program to determine the time periods for each area.

The Opening and the Closing Windows operate independently from each other. It is not necessary to program an opening window each time you program a closing window and vice-versa.

If Open/Close Windows are used, A# Windows Is YES, and the area is not disarmed and armed according to the schedule...

Fail to Open and Fail to Close reports are generated even if *Enable O/C* is programmed NO.

Early to Open, Late to Open, Closing Early and Closing Late are only sent if *Enable O/C* is programmed YES.

Area

Radionics Default: 1

Selections: 1 – 4

Enter the Area number you are programming.

Sunday

Radionics Default:

Selections:

Enter Group, Up Arrow, Down Arrow

Press ENTER GROUP to define Opening & Closing Windows for the day showing in the display.

Press ▼ (Down Arrow) to advance to the next day of the week. Press ▲ (Up Arrow) to step back to the previous day of the week.

A# Open Start

Radionics Default: -- : --

Selections:

HH:MM (hours and minutes)

Enter the time of day that the Opening Window goes into effect for this area on the day specified. Make entries using the 24-hour format and ONLY use times beginning on the hour or the 1/2 hour (e.g., 7:00 AM is entered as 07:00, 2:30 PM is entered as 14:30).

To disable the starting window, both the hours and minutes spaces must be blank.

To program a starting time:

1. Press the two digits representing the hour.
2. Press the right arrow key → to advance the cursor beyond the colon (:) in the display.
3. Press the two digits representing the minutes.
4. Press ENTER.

Module 2 AREA WIDE PARAMETERS**A# Open Duration**

Radionics Default: Blank
Selections:

Blank or 30, 60, 90, 120 (minutes)

Enter the length of time that the window is active. During the window all opening reports from this area are suppressed.

The default entry in the D5200 changes to 120 minutes after you make an entry in **Open Start**. Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display. The D5200 will not accept entries made from the characters on the keyboard.

A# Close Start

Radionics Default: --- : ---
Selections:

HH:MM (hours and minutes)

Enter the time of day that the Closing Window goes into effect for this area on the day specified. Make entries using the 24-hour format and ONLY use times beginning on the hour or the 1/2 hour (e.g., 7:00 AM is entered as 07:00, 2:30 PM is entered as 14:30).

To disable the starting window, both the hours and minutes spaces must be blank.

To program a starting time:

1. Press the two digits representing the hour.
2. Press the right arrow key → to advance the cursor beyond the colon (:) in the display.
3. Press the two digits representing the minutes.
4. Press **ENTER**.

A# Clos Duration

Radionics Default: Blank
Selections:

Blank or 30, 60, 90, 120 (minutes)

Enter the length of time that the Closing Window is active. During the window all closing reports from this area are suppressed.

The default entry in the D5200 changes to 120 minutes after you make an entry in **Close Start**. Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display. The D5200 will not accept entries made from the characters on the keyboard.

To program additional windows in this area for other days of the week, press **EXIT GROUP**. Advance the cursor to the day of the week you want to program then press **ENTER GROUP**.

To program windows for a different area, press **EXIT GROUP**. Press the **UP ARROW** or **DOWN ARROW** key until the cursor is at the **Area #** prompt. Enter the number of the area you want to program. Advance the cursor to the day of the week you want to program then press **ENTER GROUP**.

Bypass Windows

Opening and Closing Windows are used to suppress opening and closing reports during specific time periods, and to activate the *Auto Close* feature. If you have activated opening and closing windows for areas, this section of the program can be used to bypass the windows on the days you select. When the windows are bypassed using Bypass Windows, opening and closing reports are sent during the 24 hour period following the time programmed.

For information on setting up opening and closing windows, see the *Area Open/Close* section **Windows** program item and see the *Open/Close Windows* section.

Area

Radionics Default: 1

Selections: 1 – 4

Enter the Area number you are programming.

A# W1 Date

Radionics Default: -- / --

Selections: MM/DD (month and day)

Enter the date for the first Bypass Window in the area specified (A#). Unrestricted openings and closings are reported during the 24 hour period following the time set in *A# W1 Time*.

Make entries using two digits to represent the month and two digits to represent the day (e.g., May 16 is entered as 05/16).

To disable the window, both the month and day spaces must be blank.

To program a date:

1. Press the two digits representing the month.
2. Press the right arrow key → to advance the cursor beyond the slash (/) in the display.
3. Press the two digits representing the day.
4. Press ENTER.

A# W1 Time

Radionics Default: -- : --

Selections: HH:MM (hours and minutes)

Enter the time for the first Bypass Window. Unrestricted openings and closings are reported during the 24 hour period following this time on the date set in *A# W1 Date*.

Make entries using the 24-hour format and ONLY use time in increments of 10 minutes (e.g., 7:10 AM is entered as 07:10, 2:20 PM is entered as 14:20).

The D5200 will not accept an entry here if *W1 Date* is blank.

To program a time:

1. Press the two digits representing the hour.
2. Press the right arrow key → to advance the cursor beyond the slash (/) in the display.

Module 2 AREA WIDE PARAMETERS

3. Press the two digits representing the minutes.
4. Press **ENTER**.

A# W2 Date

Radionics Default: /
Selections:

MM/DD (month and day)

Enter the date for the second Bypass Window in the area specified (**A#**). Unrestricted openings and closings are reported during the 24 hour period following the time set in **A# W2 Time**.

To disable the window, both the month and day spaces must be blank.

See the instructions in **A# W1 Date**.

A# W2 Time

Radionics Default: :
Selections:

HH:MM (hours and minutes)

Enter the time for the second Bypass Window. Unrestricted openings and closings are reported during the 24 hour period following this time on the date set in **A# W2 Date**.

The D5200 will not accept an entry here if **W2 Date** is blank.

See the instructions in **A# W1 Time**.

A# W3 Date

Radionics Default: /
Selections:

MM/DD (month and day)

Enter the date for the third Bypass Window in the area specified (**A#**). Unrestricted openings and closings are reported during the 24 hour period following the time set in **A# W3 Time**.

To disable the window, both the month and day spaces must be blank.

See the instructions in **A# W1 Date**.

A# W3 Time

Radionics Default: **Blank**
Selections:

HH:MM (hours and minutes)

Enter the time for the third Bypass Window. Unrestricted openings and closings are reported during the 24 hour period following this time on the date set in **A# W3 Date**.

The D5200 will not accept an entry here if **W3 Date** is blank.

See the instructions in **A# W1 Time**.

PASSCODE WORKSHEET

Use this section of the program to define passcode numbers for up to 25 users of the D7112. The passcode numbers are enabled by area.

Passcodes are generally used to arm and disarm a security system. In the D7112, a passcode can also be used to access a number of command center functions. Command center functions are enabled for each area in the *Command Center Menus* section of the program.

Users given the authority to use their passcode in an area **either** have access to all the functions enabled in the area, **or** the passcode can activate an Auxiliary relay.

If the passcode is used to activate an Auxiliary relay in any area of the panel, it cannot access any command or menu function in any area.

About Aux Relays:

- For each area, a passcode can activate an Aux relay if this feature is enabled in *Area Parameters Passcode Powers Aux Relay*.
- If the passcode is used to activate an Auxiliary relay in any area of the panel, it cannot access commands or menu functions in any area of the panel where a passcode is required.
- Passcodes can activate either an off-board relay which is specific to an area (relay numbers 5, 6, 7, and/or 8) or the on-board Auxiliary Relay. To activate a relay, program *Aux Relay YES* in the Passcode Worksheet.
- To activate a relay specific to an area, *Area Auxiliary Relay* in the *Relays* section must be YES, and a D8129 OctoRelay must be installed. The on-board Auxiliary Relay is disabled when *Area Auxiliary Relay* is YES.
- *Auxiliary Relay Time* is programmed in the *Miscellaneous* programming section. This time applies to all relays which are activated by a passcode.

User

Radionics Default:
Selections:

1

1 - 25

Enter the User number you are programming.

Reporting user numbers to the central station...

In Modem format users are identified by the actual user number, unless *Point/User Flag* is programmed YES (see *Phone Parameters*).

In BFSK user numbers are grouped and transmitted as a one-digit identifier as shown below.

User Number	1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	
25								
BFSK Code Group	1	2	3	4	5	6	7	8

Module 3 PASSCODE WORKSHEET***U# Passcode***

Radionics Default:
Selections:

123456 (User 1 only)**Blank or 000 to 999999**

Passcodes can be from three to six digits long. Do not use "space" key in passcode numbers, the programmer will reject the entry.

The programmer does not allow entry of duplicate passcode numbers, or passcode numbers which could interfere with duress passcodes. When a passcode is entered, the programmer checks all other passcodes currently in the system. If the new passcode matches an existing passcode or a duress passcode, the new passcode is rejected by the programmer.

User Tamper Reports: If a passcode is entered at the command center and the passcode is not programmed in the panel (e.g., the user makes a mistake pressing digits), ENTER AGAIN appears in the display.

A user tamper report is sent to the central station after six failed attempts to enter a passcode from the command center.

U# On In Area 1

Radionics Default:
Selections:

Yes (User 1, Area 1 only)**Yes or No**

Does this user have the authority to use the passcode to perform command center functions in Area 1?

Yes ----- This passcode can be used to perform command center functions in this area.

Do not program this User to activate an Aux relay in any area. Program ***U# Area _ Relay NO*** for all areas for this User number.

No ----- This passcode cannot be used to perform command center functions in this area.

U# Area 1 Relay

Radionics Default:
Selections:

No**Yes or No**

Will the Aux relay activate when this passcode is entered in Area 1?

Yes ----- This passcode activates an Aux relay when it is entered at a command center assigned to this area. (This feature must be enabled in *Area Parameters Passcode Powers Aux Relay*.)

This passcode cannot be used to perform command center functions in any area, but it can activate a duress alarm. The Aux relay will activate when duress is entered, but the system will not disarm.

Do not program this User to perform command center functions in any area. Program ***U# On In Area _ NO*** for all areas for this User number.

No ----- This passcode will not activate an Aux relay when it is entered at a command center assigned to this area.

U# On In Area 2

Radionics Default: No
Selections:

Yes or No

Does this user have the authority to use the passcode to perform command center functions in Area 2?

See explanation in *U# On In Area 1*.

U# Area 2 Relay

Radionics Default: No
Selections:

Yes or No

Will the Aux relay activate when this passcode is entered in Area 2?

See explanation in *U# Area 1 Relay*.

U# On In Area 3

Radionics Default: No
Selections:

Yes or No

Does this user have the authority to use the passcode to perform command center functions in Area 3?

See explanation in *U# On In Area 1*.

U# Area 3 Relay

Radionics Default: No
Selections:

Yes or No

Will the Aux relay activate when this passcode is entered in Area 3?

See explanation in *U# Area 1 Relay*.

U# On In Area 4

Radionics Default: No
Selections:

Yes or No

Does this user have the authority to use the passcode to perform command center functions in Area 4?

See explanation in *U# On In Area 1*.

U# Area 4 Relay

Radionics Default: No
Selections:

Yes or No

Will the Aux relay activate when this passcode is entered in Area 4?

See explanation in *U# Area 1 Relay*.

RELAYS

This section of the program is used when off-board relays are installed in the system. Off-board relays are provided by the D8129 OctoRelay Module. The D8129 OctoRelay Module is connected to the D7112 through a D8125X Module.

Some off-board relay features provide a separate relay for each area. These are called "Area Relays". Other off-board relay features provide only one relay which is shared by all the areas. These are called "Panel-Wide Relays". Each program item in this section indicates whether the relay feature is an "Area" or a "Panel-Wide" function.

The *Program Record Sheet* provides a chart which shows the Area and Panel-Wide relays and the numbers assigned to each function. More information about setting switches and wiring instructions can be found in the *D7112 Operation and Installation Manual* (74-06195-000).

If you are not using off-board relays in the system you may skip these program items.

The D7112 provides three on-board panel-wide features which can be replaced by off-board area specific relays:

Alarm Power Output (terminal 7) is a panel wide function. It can provide power for fire and burglary bells (see Digit 2 in the *Point Assignments* section.)

Aux Relay (terminals 8, 9, 10) is a panel wide relay. It can be activated by an alarm condition (see Digit 4 in the *Point Assignments* section) or by entering a passcode (see the *Passcode Worksheet*). An optional D136 Relay is required.

Sensor Reset (terminals 23, 24) interrupts power to the Two Wire Smoke Detector powered loop when Sensor Reset is entered at a command center assigned to the same area as Point 1.

Bell Relay

Radionics Default:

No

Selections:

Yes or No

Area Bell Relays. When Area Bell Relays are used, the on-board alarm power output (terminal 7) is disabled.

Yes -----Area 1 – Bell Relay = Relay 1
 -----Area 2 – Bell Relay = Relay 2
 -----Area 3 – Bell Relay = Relay 3
 -----Area 4 – Bell Relay = Relay 4

No -----All areas use the on-board alarm power output (terminal 7).

Auxiliary Relay

Radionics Default: No
Selections:

Yes or No

Area Auxiliary Relays. When Area Auxiliary Relays are used, the on-board Aux Relay (terminals 8, 9, 10) is disabled.

- Yes -----Area 1 – Aux Relay = Relay 5
 -----Area 2 – Aux Relay = Relay 6
 -----Area 3 – Aux Relay = Relay 7
 -----Area 4 – Aux Relay = Relay 8

No -----All areas use the on-board Aux relay (terminals 8, 9, 10).

Sensor Reset

Radionics Default: No
Selections:

Yes or No

Area Sensor Reset Relays. When Area Sensor Relays are used, the on-board Sensor Reset function (terminals 23 & 24) is disabled.

- Yes -----Area 1 – Smoke Relay = Relay 9
 -----Area 2 – Smoke Relay = Relay 10
 -----Area 3 – Smoke Relay = Relay 11
 -----Area 4 – Smoke Relay = Relay 12

No -----Area uses the on-board Sensor Reset function (terminals 23 & 24).

Warning!

When the on-board sensor reset feature is used, the Sensor Reset (Command 47) command center function should only be enabled in the area to which Point 1 is assigned.

Master Arm

Radionics Default: No
Selections:

Yes or No

Area Master Armed Relay

- Yes -----Area 1 – Master Armed = Relay 13
 -----Area 2 – Master Armed = Relay 14
 -----Area 3 – Master Armed = Relay 15
 -----Area 4 – Master Armed = Relay 16

No -----No Master Armed Relays

MODULE 4**RELAYS****Loop Status**

Radionics Default: No
Selections: Yes or No

Area Loop Status Relays

Yes -----Area 1 – Loop Status Relay = Relay 17
 -----Area 2 – Loop Status Relay = Relay 18
 -----Area 3 – Loop Status Relay = Relay 19
 -----Area 4 – Loop Status Relay = Relay 20
 No -----No Loop Status Relays

Alarm Memory

Radionics Default: No
Selections: Yes or No

Area Alarm Memory Relays. These relays do not reset until the area is re-armed.

Yes -----Area 1 – Alarm Memory Relay = Relay 21
 -----Area 2 – Alarm Memory Relay = Relay 22
 -----Area 3 – Alarm Memory Relay = Relay 23
 -----Area 4 – Alarm Memory Relay = Relay 24
 No -----No Alarm Memory Relays

AC Fail

Radionics Default: No
Selections: Yes or No

Relay Activated During AC Failure (Panel-Wide)

Yes -----Relay 33, steady output during AC Fail
 No -----No relay output

Battery Tbl

Radionics Default: No
Selections: Yes or No

Relay Activated During Battery Trouble (Panel-Wide)

Yes -----Relay 34, steady output during a battery trouble condition
 No -----No relay output

Telephone Fail

Radionics Default: No
Selections: Yes or No

Relay Activated During Telephone Line Failure (Panel-Wide)

Yes -----Relay 35, steady output during phone line failure condition
 No -----No relay output

Comm Fail

Radionics Default: No
Selections:

Yes or No

Relay Activated During Telephone Communication Failure (Panel-Wide)

Yes ----- Relay 36, steady output during communication failure condition
 No ----- No relay output

Watch Mode

Radionics Default: No
Selections:

Yes or No

Relay Activated During Watch Mode (Panel-Wide)

Yes ----- Relay 37, 2-second output during Watch Mode point activation
 No ----- No relay output

Summary Fire Tbl

Radionics Default: No
Selections:

Yes or No

Relay Activated During Fire Troubles (Panel-Wide). This relay does not reset until the area is re-armed.

Yes ----- Relay 38, steady output during fire troubles. This relay does not reset until the area is re-armed.
 No ----- No relay output

Summary Tbl

Radionics Default: No
Selections:

Yes or No

Relay Activated During Non-Fire Troubles (Panel-Wide). This relay does not reset until the area is re-armed.

Yes ----- Relay 39, steady output during unrestored non-fire troubles. This relay does not reset until the area is re-armed.
 No ----- No relay output

Any Area Perim

Radionics Default: No
Selections:

Yes or No

Relay Activated When Any Area Is Perimeter Armed (Panel-Wide)

Yes ----- Relay 40, steady output when any area is perimeter armed
 No ----- No relay output

Command Center Menus

The *Security System Owner's Manual* contains end-user instructions and application information about each of the Command Center Menus and functions programmed in this section. Before programming this section, please review the first two pages of the *Security System Owner's Manual*: "How to Customize this Manual for the System Owner" and "How to Present this Manual to the System User." This information can help you simplify the system for your customer, and make appropriate programming choices.

Each top level menu and function can be turned on or off and can or cannot require a passcode. Top level menus are shown in ALL CAPITAL LETTERS (upper case) in the programmer.

If a top level menu is turned off (blank), it and all of the menu items below it are made invisible in the area specified.

When the top level menu is turned off, functions within the menu structure can be executed using an Easy Menu or a Quick Command. The individual functions must be enabled by entering an "E" or "P" for the function.

The selections for menu and function program items are available in a choice list. Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display. (Or, you may press the E or P key to make the entry.)

Area #

Radionics Default:
Selections:

1

1 – 4

Enter the Area number you are programming.

A# DISARM MENU

Radionics Default:
Selections:

E (Area 1 only)

Blank or E

Disarm Menu is a top level menu for the D1254 Command Center. (Top Level Menus are shown in upper case letters in this section of the program.)

Blank -----The top level menu and all menu items below it are made invisible to the user in the area specified.

E -----Enable the top level menu in the area specified.

A# Disarm All

Radionics Default:
Selections:

E (Area 1 only)

Blank, E, or P

Disarm All Areas (Easy Menu #1): This command center function disarms all areas in the panel.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). The panel disarms only the areas where the passcode is authorized.

A# Disarm An Area

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Disarm An Area (Easy Menu #2): This command center function disarms the area specified.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can disarm only the areas where the passcode is authorized.

A# ARM MENU

Radionics Default: E (Area 1 only)
Selections:

Blank or E

Arm Menu is a top level menu for the D1254 Command Center. (Top Level Menus are shown in upper case letters in this section of the program.)

Blank -----The top level menu and all menu items below it are made invisible to the user in the area specified.

E -----Enable the top level menu in the area specified.

A# Master Arm All

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Master Arm All Areas (Easy Menu #3): This command center function master arms all areas in the panel.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). The panel arms all the areas where the passcode is authorized.

Force Arming is only allowed in the area to which the command center is assigned. If there are any faults in another area, the display shows CHECK AREA #, then returns to idle text.

Module 5 CMD CENTER FUNCTIONS**A# Master Arm Area**

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Master Arm an Area (Command 1, Easy Menu #4): This command center function arms the area specified.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can only arm areas where the passcode is authorized.

Force Arming is only allowed in the area to which the command center is assigned. If there are any faults in another area, the display shows CHECK AREA #, then returns to idle text.

A# Perim Instant

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Perimeter Instant Arm (Command 2, Easy Menu #5): This command center function arms all perimeter points (see *Point Assignments Digit 1*) in the area specified. No entry or exit delays are provided with this arming function.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can only arm areas where the passcode is authorized.

A# Perim Delay

Radionics Default: E (Area 1 only)
 Selections:

Blank, E, or P

Perimeter Delay Arm (Command 3, Easy Menu #6): This command center function arms all perimeter points (see *Point Assignments* Digit 1) in the area specified. Entry and exit delays are provided with this arming function.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can only arm areas where the passcode is authorized.

A# Watch Mode

Radionics Default: E (Area 1 only)
 Selections:

Blank, E, or P

Perimeter Watch Mode (Command 6, Easy Menu #7): This command center function provides command center and optional relay annunciation of perimeter point (see *Point Assignments* Digit 1) faults in the area specified when the area is disarmed. No central station point reports are sent for non-fire, non-24 hour points while the area is in watch mode.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can activate the watch mode only in areas where the passcode is authorized.

A# VIEW MENU

Radionics Default: E (Area 1 only)
 Selections:

Blank or E

View Menu is a top level menu for the D1254 Command Center. (Top Level Menus are shown in upper case letters in this section of the program.)

Blank -----The top level menu and all menu items below it are made invisible to the user in the area specified.

E -----Enable the top level menu in the area specified.

Module 5 CMD CENTER FUNCTIONS**A# View Faulted Pt**Radionics Default:
Selections:

E (Area 1 only)

Blank, E, or P

View Faulted Points (Easy Menu #8): This command center function allows the user to view faulted and bypassed points in the area specified.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# View Event MemRadionics Default:
Selections:

E (Area 1 only)

Blank, E, or P

View Event Memory (Easy Menu #9): This command center function allows the user to view prior alarm and trouble activity which occurred during the last armed period in the area specified. Event memory is not cleared until the area is re-armed.

Up to 20 events can be stored in event memory panel wide. When the number of stored events exceeds 20, the panel overwrites the oldest event, regardless of the area in which it occurred.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# View Bypass Pt

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

View Bypassed Points (Easy Menu #10): This command center function allows the user to view bypassed and faulted points in the area specified.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# FUNCTION MENU

Radionics Default: E (Area 1 only)
Selections:

Blank or E

Function Menu is a top level menu for the D1254 Command Center. (Top Level Menus are shown in upper case letters in this section of the program.)

Blank -----The top level menu and all menu items below it are made invisible to the user in the area specified.

E -----Enable the top level menu in the area specified.

A# Bypass A Pt

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Bypass A Point (Easy Menu #11): This command center function allows the user to bypass points in the area specified. Bypassed points do not respond to faults.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

Module 5 CMD CENTER FUNCTIONS**A# Unbypass A Pt**

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Unbypass A Point (Easy Menu #12): This command center function allows the user to unbypass points in the area specified. When unbypassed, a point can detect faults and respond according to programming.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Sensor Reset

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Sensor Reset (Command 47, Easy Menu #13): This command center function allows the user to activate the Sensor Reset relay (see *Relays* section for information about Sensor Reset relay activation).

Warning!

When the on-board sensor reset relay is used, the Sensor Reset (Command 47) command center function should only be enabled in the area to which Point 1 is assigned.

While it is performing a Sensor Reset, the panel does not respond to alarm conditions on any point in the area where the command center is assigned.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Silence Bell

Radionics Default: E (Area 1 only)
 Selections:

Blank, E, or P

Silence Bell, Easy Menu #14: This command center function allows the user to deactivate the relay providing bell output for this area (see *Relays* section for information about bell relay activation).

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Relay Control

Radionics Default: E (Area 1 only)
 Selections:

Blank, E, or P

Relay Control (Command 54, Easy Menu #15): This command center function allows the user to manually activate optional relays numbered 25 – 32. See the *D7112 Operation and Installation Manual* (74-06195-000) for information about optional relays.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

Module 5 CMD CENTER FUNCTIONS**A# Remote Prog**

Radionics Default: E (Area 1 only)

Selections: Blank, E, or P

Remote Programming (Command 43, Easy Menu #16): This command center function allows the user to initiate Remote Account Manager sessions.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# TEST MENU

Radionics Default: E (Area 1 only)

Selections: Blank or E

Test Menu is a top level menu for the D1254 Command Center. (Top Level Menus are shown in upper case letters in this section of the program.)

Blank -----The top level menu and all menu items below it are made invisible to the user in the area specified.

E -----Enable the top level menu in the area specified.

A# Walk Test

Radionics Default: E (Area 1 only)

Selections: Blank, E, or P

Walk Test (Command 44, Easy Menu #17): This command center function allows the user to test points in the area without sending reports to the central station.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Bell Test

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Bell Test (Easy Menu #18): This command center function allows the user to test the bell in the area specified. This function momentarily activates the relay providing bell output for this area (see *Relays* section for information about bell relay activation).

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Send Report

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

Send Report (Command 41, Easy Menu #19): This command center function allows the user to test the communication link between the panel and the central station receiver(s). It sends a test report to the phone numbers as programmed in *Phone Routing*. The test report includes panel status if enabled in *Test Reports Status With Test*.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

Module 5 CMD CENTER FUNCTIONS**A# Set Test Time****Radionics Default:** E (Area 1 only)**Selections:** Blank, E, or P

Set Next Test Time (Command 48, Easy Menu #20): This command center function allows the user to display and adjust the next automatic test report time and the date it will occur.

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# CHANGE MENU**Radionics Default:** E (Area 1 only)**Selections:** Blank or E

Change Menu is a top level menu for the D1254 Command Center. (Top Level Menus are shown in upper case letters in this section of the program.)

Blank -----The top level menu and all menu items below it are made invisible to the user in the area specified.

E -----Enable the top level menu in the area specified.

A# Chg Display**Radionics Default:** E (Area 1 only)**Selections:** Blank, E, or P

Change Display (Command 49, Easy Menu #21): This command center function allows the user to select either a bright or dim display, loud or soft command center warning tones, and it turns on the continuous time and date display. (The time and date display clears when a higher priority message needs to be displayed.)

Blank -----Disable the function in the area specified. When disabled, the menu item does not appear in the command center display.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# SERVICE MENU

Radionics Default: E (Area 1 only)
Selections:

Blank, E, or P

The Service Menu consists of several functions. These functions are never visible as you scroll through the top level menus. These functions are accessed by pressing 99 ENTER on the D1254.

The functions are:

View Events - Easy Menu #27. This command center function allows the user to view all of the events stored in the D7112 log. This is particularly useful for system troubleshooting. Once this function is accessed, the D1254 prompts for a starting date. All of the activities of the panel since the date you specified will then be displayed on the command center with the time and date each event occurred.

Print Events --Easy Menu #28. This command center function allows the user to print all of the events stored in the D7112. Once this function is accessed, the D1254 prompts for a starting date. All of the activities of the panel since the date you specified will then be printed on the printer connected to the D9131 Printer Interface.

Blank -----Disable all the service functions in the area specified.

E -----Enable all the service functions in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Special Cmd 7

Radionics Default: Blank
Selections:

Blank, E, or P

Special Report (Command 7): This function is never visible as you scroll through the menus or functions. This command center function allows the user to activate an alarm report by entering **CMD 7** at the command center. Command 7 provides alarm power output (from D7112 terminal 7), or area relay output (when *Bell Relay* is programmed YES in the *Relays* section). Command 7 does not produce an audible tone at the command center.

Blank -----Disable the function in the area specified.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

Module 5 CMD CENTER FUNCTIONS**A# Special Cmd 9**

Radionics Default: Blank
Selections:

Blank, E, or P

Special Report (Command 9): This function is never visible as you scroll through the menus or functions. This command center function allows the user to activate an alarm report by entering **CMD 9** at the command center. Command 9 does not provide any alarm power output, relay output, nor audible tone at the command center.

Blank -----Disable the function in the area specified.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

A# Default Text

Radionics Default: E
Selections:

Blank, E, or P

Display Default Text (Command 57): This function is never visible as you scroll through the top level menus, it is part of the Service Menu. The Service Menu is accessed by pressing **99 ENTER** on the D1254.

This command center function allows the user to display the non-customized command center text for the area specified. This may be helpful in troubleshooting if the user cannot remember the meaning of custom text.

Blank -----Disable the function in the area specified.

E -----Enable the function in the area specified. No passcode entry is required.

P -----Passcode entry is required before the command center function is executed. When the passcode is entered, the panel checks to see if the passcode is authorized in the area where the command center is assigned (see *Command Center Assignments Area #*). This command center function can be accessed only in the areas where the passcode is authorized.

An additional troubleshooting tool:

Command 59 (Display software revision): This command center function allows the user to display the revision level of the software installed in the D7112. This feature requires no programming. It is always enabled.

Duress +1/+2

Radionics Default: Blank
Selections:

Blank, 1, or 2

Duress is a panel-wide feature. When this item is programmed, all passcodes in the system will use the same duress parameters.

Blank -----No duress report

1 -----Duress when last passcode digit is increased by one.

2 -----Duress when last passcode digit is increased by two.

Easy Menu

Easy Menus are a way to perform specific command center functions without going through the command center menu structure.

A list of each of the command center functions and their associated Easy Menu programming number is shown on the *Program Record Sheet* under the column marked EASY MENU #, and you may also find these numbers referenced with the program items in this *Program Entry Guide*.

Easy Menu 1

Radionics Default: 17 (Walk Test)

Selections:

Blank or 1 – 28

Enter the number representing the function you want this Easy Menu to perform. The function must be enabled in the area where the Easy Menu item is accessed. Use of the function with Easy Menus follows the same restrictions applied in the *Command Center Menus* programming section.

If you use Easy Menus, make sure Easy Menu 1 is programmed.
 If the first menu item is blank then the entire Easy Menu structure is turned off. If you disable Easy Menu 1, and want to use 2, 3, or 4, you must move one of the functions into Easy Menu 1.

Easy Menu 2

Radionics Default: 13 (Sensor Reset)

Selections:

Blank or 1 – 28

Enter the number representing the function you want this Easy Menu to perform.

Easy Menu 3

Radionics Default: 23 (Change Passcodes)

Selections:

Blank or 1 – 28

Enter the number representing the function you want this Easy Menu to perform.

Easy Menu 4

Radionics Default: Blank

Selections:

Blank or 1 – 28

Enter the number representing the function you want this Easy Menu to perform.

Command Center Assignments

This section of the program allows you to assign each of the four command center addresses to an area. The D7112 can supervise up to four command centers. The number of unsupervised command centers is limited by the available power supply and the programming configuration.

Supervision affects the number of command centers you can install, as well as the number of areas you can use in the system. When a command center address is supervised, only one hard-wired command center with that address can be installed in the system.

D710 RF Command Centers are not supervised. D710 RF Command Centers can be assigned the same address as hard-wired supervised command centers. Any supervision reports for the supervised address would indicate trouble on the hard-wired command center, not the RF command center.

Following are some examples of how you can configure your system with multiple command centers. Supervised command centers are indicated by an "s" in the table. Unsupervised command centers are indicated by "(multi)" indicating that multiple command centers can be installed.

All command centers supervised

	Area 1	Area 2	Area 3	Area 4
EXAMPLE 1	Addr 1s	Addr 2s	Addr 3s	Addr 4s
EXAMPLE 2	Addr 1s Addr 2s	Addr 3s	Addr 4s	None
EXAMPLE 3	Addr 1s Addr 2s	Addr 3s Addr 4s	None	None
EXAMPLE 4	Addr 1s Addr 2s Addr 3s	Addr 4s	None	None
EXAMPLE 5	Addr 1s Addr 2s Addr 3s Addr 4s	None	None	None

Some command centers supervised some unsupervised

	Area 1	Area 2	Area 3	Area 4
EXAMPLE 1	Addr 1s	Addr 2s	Addr 3 (multi)	Addr 4 (multi)
EXAMPLE 2	Addr 1s Addr 2s	Addr 3 (multi)	Addr 4 (multi)	None
EXAMPLE 3	Addr 1s, Addr 2s	Addr 3s, Addr 4 (multi)	None	None
EXAMPLE 4	Addr 1s Addr 2s Addr 3s	Addr 4 (multi)	None	None
EXAMPLE 5	Addr 1 (multi) Addr 2s Addr 3s Addr 4 (multi)	None	None	None

Addr# Supervised

Radionics Default: No
Selections:

Yes or No

This entry tells the panel if the command center at this address is supervised. Only one hard-wired command center can be installed with this address number if this address is supervised. (See the command center installation manual for switch settings).

Program this item NO if only a D710 RF Command Center is installed at this address. D710 RF Command Centers are not supervised.

D710 RF Command Centers can be assigned the same address as hard-wired supervised command centers. Any supervision reports for the supervised address would indicate trouble on the hard-wired command center, not the RF command center.

Addr# Type

Radionics Default: D1254
Selections:

D1254 or D710

Select the type of command center at this address.

D1254 Alpha III Command Center
 D710 RF Command Center

D710 RF Command Centers can be assigned to the same address as hard-wired command centers. If both D1254 and D710 RF command centers share the same address, program this item **D710**.

Press the **SPACE BAR** to scroll through the selections. Press **ENTER** when the correct selection appears in the display. The D5200 will not accept entries made from the characters on the keyboard.

Keypad Users: To send opening and closing reports when using a keypad, program **Addr# Type** as D1254 for the area the keypad point is assigned to.

Addr# Area

Radionics Default: 1
Selections:

1, 2, 3, or 4

Assigns the command center address to an area. All four addresses can be assigned to the same area or all may be assigned to different areas, or may be assigned in various combinations according to the supervision characteristics desired. See the examples at the beginning of this section.

Command Center Text

This section of the program allows you to create custom "Idle Text" displays for the command centers.

Area # Is On

Radionics Default:
Selections:

DEFAULT USED (Area # Is On)

16 Alphanumeric characters

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers when the system/area is armed.

The D7112 contains an automatic display for each area indicating the area number as shown below. This is the text which appears at command centers in each area when DEFAULT USED is shown in the programmer's display:

AREA 1 IS ON

AREA 2 IS ON

AREA 3 IS ON

AREA 4 IS ON

If you change the text display, all four areas will have the same armed text.

To recover the automatic display as shown above, first, press the **CLEAR** key, then, type DEFAULT USED into the D5200. This entry should begin in the first cursor position in the data entry field. The first cursor position is the third space in the display.

Area # Not Ready

Radionics Default:
Selections:

DEFAULT USED (Area # Not Ready)

16 Alphanumeric characters

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers when the system/area has faulted controlled points.

The D7112 contains an automatic display for each area indicating the area number as shown below. This is the text which appears at command centers in each area when DEFAULT USED is shown in the programmer's display:

AREA 1 NOT READY

AREA 2 NOT READY

AREA 3 NOT READY

AREA 4 NOT READY

If you change the text display, all four areas will have the same text.

To recover the automatic display as shown above, first, press the **CLEAR** key, then, type DEFAULT USED into the D5200. This entry should begin in the first cursor position in the data entry field. The first cursor position is the third space in the display.

Area # Is Off

Radionics Default:
Selections:

DEFAULT USED (AREA # IS OFF)**16 Alphanumeric characters**

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers when the system/area is ready to be armed (there are no faulted controlled points).

The D7112 contains an automatic display for each area indicating the area number as shown below. This is the text which appears at command centers in each area when DEFAULT USED is shown in the programmer's display:

AREA 1 IS OFF

AREA 2 IS OFF

AREA 3 IS OFF

AREA 4 IS OFF

If you change the text display, all four areas will have the same text.

To recover the automatic display as shown above, first, press the **CLEAR** key, then, type **DEFAULT USED** into the D5200. This entry should begin in the first cursor position in the data entry field. The first cursor position is the third space in the display.

Custom Point Text

This section of the program allows you to create up to four additional selections for the Point Text Library. These additional selections are available to both the Residential and the Commercial Library.

Fire Points automatically display "FIRE" before the programmed point text. This applies to selections from the standard Residential and Commercial Point Text Library, as well as the Custom Point Text library items.

Text 1

Radionics Default: Blank
Selections:

10 Alphanumeric characters

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers and prints on the local printer for Point Text Library #96.

Text 2

Radionics Default: Blank
Selections:

10 Alphanumeric characters

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers and prints on the local printer for Point Text Library #97.

Text 3

Radionics Default: Blank
Selections:

10 Alphanumeric characters

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers and prints on the local printer for Point Text Library #98.

Text 4

Radionics Default: Blank
Selections:

10 Alphanumeric characters

Periods (.) commas (,) percent (%), parenthesis [()], equal (=), greater/less than (<>), exclamation (!) and colons (:) are not allowed

Enter the text that displays at command centers and prints on the local printer for Point Text Library #99.

Entry Timers

This section of the program allows you to create up to three Entry Delay Timers. These timers are used with delay points when programming Point Assignments. (Delay points are enabled with Digit 5 of the Point Code 8, 9, A, or B.)

Entry Timer #1

Radionics Default: 30
Selections:

Blank – 250 seconds (in 10 second increments)

Enter the time allowed prior to a delay point going into alarm.

Entry Timer 2

Radionics Default: Blank
Selections:

Blank – 250 seconds (in 10 second increments)

Enter the time allowed prior to a delay point going into alarm.

Entry Timer 3

Radionics Default: Blank
Selections:

Blank – 250 seconds (in 10 second increments)

Enter the time allowed prior to a delay point going into alarm.

Exit Delay

This section of the program allows you to set individual exit delay times for each area in the D7112.

Area 1

Radionics Default: 60

Selections:

Blank – 150 seconds (in 10 second increments)

Exit delay time for this area. Entry must be made in ten second increments.

Area 2

Radionics Default: Blank

Selections:

Blank – 150 seconds (in 10 second increments)

Exit delay time for this area. Entry must be made in ten second increments.

Area 3

Radionics Default: Blank

Selections:

Blank – 150 seconds (in 10 second increments)

Exit delay time for this area. Entry must be made in ten second increments.

Area 4

Radionics Default: Blank

Selections:

Blank – 150 seconds (in 10 second increments)

Exit delay time for this area. Entry must be made in ten second increments.

POINT ASSIGNMENTS**D8125X POPEX**

Radionics Default: Yes
Selections:

Yes or No

Yes ----- This item should ALWAYS be programmed YES unless a D9125 POPEX Module is installed.

No ----- D9125 POPEX Module installed to interface with D9100 series POPIT points.

Point #

Radionics Default: 1 (for Point 1 only)
Selections: 1 - 48

Enter the point number you are programming.

Hardware note: When setting the point number on off-board points be careful not to duplicate the same point number. Points with the same address will not operate properly, and will not detect violations.

Reporting Point numbers to the central station...

In Modem format points are identified by the actual number, unless Point/User Flag is programmed YES (see Phone Parameters).

In BFSK point numbers are grouped and transmitted as a one-digit "zone" identifier as shown below.

Point Number	1	2	3	4	5	6	7	8	
	9	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	24	
	25	26	27	28	29	30	31	32	
	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	
BFSK Zone Group	1	2	3	4	5	6	7	8	

Pt# Pt Code

Radionics Default: 02211 (Point 1 only)
Selections:

Five characters required.

See the Point Code Appendix.

See Point Code Definitions in the D7112 Program Record Sheet for the key to the characters used in each digit of the point code.

Use only the point codes listed below. The # in the fourth digit position indicates that you may select any character from 0-F in this position. See the Point Code Appendix for more information.

*Means a
letter
goes here*

Module 7**POINT ASSIGNMENTS**

002#4	020#3	021#1	021#3	022#1	040#3	041#1	041#3	042#1
100#0	100#1	101#1	101#2	102#1	102#2	102#4	110#0	111#1
111#2	112#1	112#2	112#4	120#0	121#0	121#1	121#2	122#1
122#2	130#0	131#0	131#1	131#2	132#1	132#2	140#0	141#0
141#1	141#2	142#1	142#2	150#0	151#0	151#1	151#2	152#1
152#2	220#4	220#7	220#8	220#A	221#4	221#5	221#6	221#7
221#8	221#9	221#A	221#B	222#5	222#6	222#7	222#9	222#B
223#4	223#5	223#6	223#7	223#8	223#9	223#A	223#B	224#4
224#5	224#6	224#7	224#8	224#9	224#A	224#B	320#4	320#7
320#8	320#A	321#4	321#5	321#6	321#7	321#8	321#9	321#A
321#B	322#5	322#6	322#7	322#9	322#B	323#4	323#5	323#6
323#7	323#8	323#9	323#A	323#B	324#4	324#5	324#6	324#7
324#8	324#9	324#A	324#B	400#0	500#0	600#0	700#0	

Pt# Area**Radionics Default:** 1 (Point 1 only)**Selections:** 1 – 4

Assign this point number to an area.

Pt# Timer #**Radionics Default:** Blank (Point 1 only)**Selections:** Blank or 1 – 3Select the entry delay timer for this point. Entry Delay Timers are programmed in the *Entry Timers* section of the program.

Blank entry makes this an instant alarm point.

The shortest entry delay time is used when multiple points with different entry delay times are tripped.

The first point faulted starts the entry delay timer. When a second entry delay point trips, the panel checks the remaining entry delay time. If the second point has less entry delay than the remaining time, the shorter time is used.

e.g., The front door has a 40 second timer. The hall motion detector has 10 seconds. You trip the front door. It takes 20 seconds to trip the motion detector. Because the 10 second delay for the motion detector is shorter than the 20 seconds remaining from the front door, the delay time is replaced and the area must be disarmed within 10 seconds. (Ten seconds of the entry time originally allotted to the front door was lost when the second point tripped.)

Pt# Pt Text #**Radionics Default:** 70 (Point 1 only)**Selections:** 1 – 99Enter one of the code numbers from either the Residential or Commercial library. See the *D7112 Program Record Sheet* for a description of the text represented by each available selection.Four custom text selections (96 – 99) are also available as programmed in the *Custom Point Text* section of the program.

Point Code Appendix

Listed in this section are all of the acceptable point codes for the D7112 listed according to their function. The tables on the last page of the *D7112 Program Record Sheet* provide the key to the meaning of each digit. The terms used in the Point Code Digit Definitions are further defined following the listing of acceptable point codes.

Point Type	Acceptable Point Codes															
Fire																
normally open	022#1	042#1	021#1	041#1	021#3	041#3	020#3	040#3	002#4							
24-Hour																
normally open	122#1	142#1	132#1	152#1	121#1	141#1	131#1	151#1	121#0	141#0	131#0	151#0	120#0	140#0	130#0	150#0
normally open, silent	102#1	112#1	101#1	111#1	100#1	110#0										
normally closed	122#2	142#2	132#2	152#2	121#2	141#2	131#2	151#2	121#0	141#0	131#0	151#0	120#0	140#0	130#0	150#0
normally closed, silent	102#2	112#2	101#2	111#2	100#0	110#0	102#4	112#4								
Interior Delayed																
normally open	222#B	221#B	221#A	220#A	224#B	223#B	224#A	223#A								
normally closed	222#9	221#9	221#8	220#8	224#9	223#9	224#8	223#8								
Interior Instant	224#7	222#7	223#7	221#7	220#7											
normally open	222#5	221#5	221#4	220#4	224#5	223#5	224#4	223#4								
normally closed	222#6	221#6	221#4	220#4	224#6	223#6	224#4	223#4								
Perimeter Delayed																
normally open	322#B	321#B	321#A	320#A	324#B	323#B	324#A	323#A								
normally closed	322#9	321#9	321#8	320#8	324#9	323#9	324#8	323#8								
Perimeter Instant	324#7	322#7	323#7	321#7	320#7											
normally open	322#5	321#5	321#4	320#4	324#5	323#5	324#4	323#4								
normally closed	322#6	321#6	321#4	320#4	324#6	323#6	324#4	323#4								
Keyswitch	400#0	500#0	600#0	700#0												

The programmer will reject non-standard point codes. Use only the point codes listed in the table above. They are the same as the codes listed following *Pt# Pt Code* but there they are listed in numerical order. Do not attempt to construct custom point codes using the tables on the back of the *D7112 Program Record Sheet* (74-06102-000). Use those tables to decode the digits in the point code.

The # used in the table above indicates that you can select any entry (0 through F) for Digit Four, as shown on the *Program Record Sheet*.

Point Code Digit Definition of Terms

Digit One: Point Type

- (0) **Fire** Fire points have a number of unique characteristics. They have the highest reporting priority. The command center displays automatically show *FIRE* before any other point text when a display concerns a fire point.
- (1) **24 Hour** 24 Hour points are "armed" all the time.
- (2) **Interior** Separates controlled points into two groups: Interior, and Perimeter. This allows you to designate the protection for Perimeter Arming purposes.
- (3) **Perimeter** A point designated as a perimeter point can be armed along with all the other perimeter points in the area while the occupants are still inside the premises. Perimeter Arming arms only the perimeter points in the area.
- (4) **Keypad
Maintained**
- Area Arming and Disarming**
While normal, the area is disarmed.
When this point changes from normal to open, the area arms.
While this point is open, the area is armed.
When this point changes from open to normal, the area disarms.
- Trouble and Restoral Reports**
A short is a trouble condition.
When this point changes from shorted to normal, it restores.
When this point changes from shorted to open, it restores.
- (5) **Keypad
Momentary**
- Area Arming and Disarming**
When this point momentarily changes from normal to shorted to normal, it toggles the armed state of the area.
- Trouble and Restoral Reports**
An open is a trouble condition.
When this point changes from open to normal, it restores.
When this point changes from open to shorted, it restores.
- (6) **Open/Close**
- Point Arming and Disarming**
While normal, the point is armed.
When this point changes from normal to shorted, the point disarms.
While shorted, the point is disarmed.
When this point changes from shorted to normal, the point arms.
- Alarm and Restoral Reports**
An open is an alarm condition.
When this point changes from open to normal, it is restored.
When this point changes from open to shorted, it sends a point opening report, and a restoral.
- (7) **Open/Close
(D279)**
- Point Arming and Disarming**
While normal, the point is armed.
When it changes from normal to open, the point disarms.
While open, the point is disarmed.
When it changes from open to normal, the point arms.
- Alarm and Restoral Reports**
A short is an alarm condition.
When this point changes from shorted to normal, it is restored.
When this point changes from shorted to open, it sends a point opening report, and a restoral.

Digit Two: Annunciation

Bell Power	Provide bell output for alarm conditions. The amount of time the bell rings is programmed panel wide in <i>Bell Parameters</i> , <i>Bell Time</i> . The type of output (i.e., steady, pulsed, etc.) depends on whether or not this is a fire point, and what is programmed in <i>Bell Parameters</i> , <i>Fire Pattern</i> or <i>Burg Pattern</i> .
Invisible Point	No command center display for this point during alarm or trouble conditions.
Ring Until Restored	Alarms initiated from this point cannot be silenced from the command center until the point is restored to normal. This option overrides the programmed bell time. If the point restores, the bell continues to ring until bell time expires.

Digit Three: Reporting Options

Alarms	Report alarms to the telephone number(s) programmed in <i>Phone</i> according to the entries in <i>Phone Routing for Fire Alarm/Restoral</i> (if this is a Fire point) or <i>Non-Fire Alarm/Restoral/Cancel</i> report groups.
Restorals	Report restorals to the telephone number(s) programmed in <i>Phone</i> according to the entries in <i>Phone Routing for Fire Alarm/Restoral</i> (if this is a Fire point) or <i>Non-Fire Alarm/Restoral/Cancel</i> report groups.
Swinger Bypass	This point can only transmit four alarms or four troubles in one clock hour. If it exceeds four alarms or four troubles in one hour, the point is bypassed for the rest of the arming period. The clock is real time and checks on the hour.

Digit Four: Additional Options

RF Point	This is a wireless RF point, rather than a hardwired point.
Bypassable Point	This point can be bypassed or force armed from the command center.
Point Powers Aux	Activate the Auxiliary relay for alarm conditions on this point. The relay which activates depends on programming in <i>Relays for Area Auxiliary Relay</i> . If this program item is NO, the on-board Aux relay is activated (D136 relay required). If this program item is YES, the off-board relay for the area that the point is assigned to is activated.
Buzz on Fault	Activate the command center trouble tone when this point is faulted (open or short circuit, or missing).

Digit Five: Point Response to Opens & Shorts

Controlled	Points which do not generate alarm conditions when the area is disarmed.
24 hour	Points which can generate alarms whether the area is armed or not.
I = Instant	An alarm condition that provides no delay time to disarm the area before alarm responses occur.
D = Delay	An alarm condition which provides delay time before alarm responses occur. The amount of delay time depends on the <i>Entry Timer</i> programmed for the individual point, and the <i>Exit Delay</i> programmed for the area where the point is assigned.
T = Trouble	Trouble responses for points include a trouble tone, and command center display text (for visible points only, see Digit Two).